

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P884605

Luminaire Tested: **NAV-SB5C-730-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5C-730-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37007 lumens
Efficiency: N/A
Efficacy: 148.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

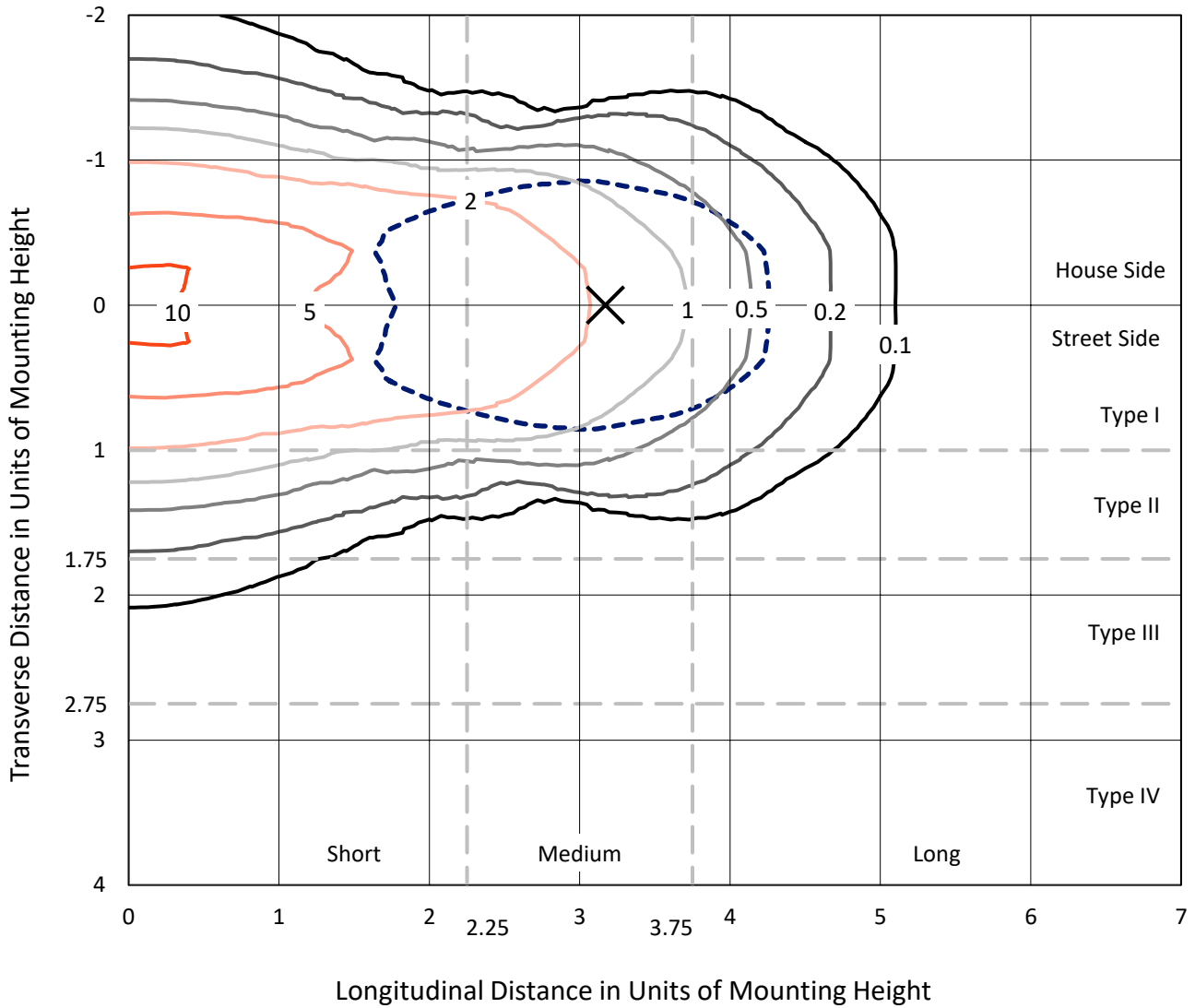
Input Watts (W): 249.5
Input Voltage (V): 120.0
Input Current (Ain): 2.116
Voltage Rise (V): NR
Power Factor: 0.996
Total Harmonic Distortion (THDi): 7.885
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P884605
 CATALOG NUMBER: NAV-SB5C-730-U-T1

Iso-Footcandle Lines of Horizontal Illumination

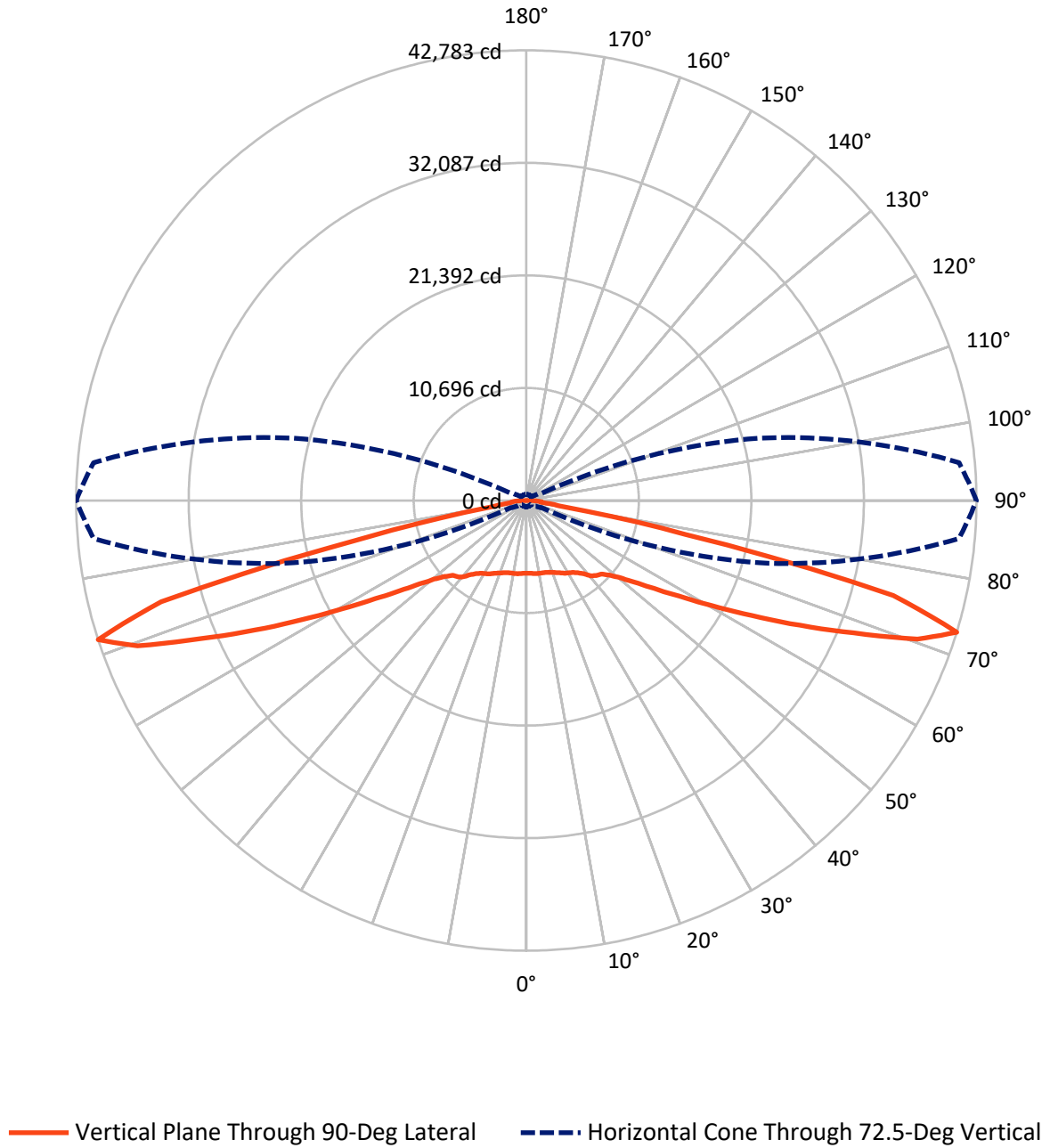
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type I - Short - N/A

REPORT NUMBER: P884605
CATALOG NUMBER: NAV-SB5C-730-U-T1

Luminous Intensity Polar Plot



REPORT NUMBER: P884605
 CATALOG NUMBER: NAV-SB5C-730-U-T1

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18503.5	0.0	18503.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18503.5	0.0	18503.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	37007.0	0.0	37007.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.5	1.8
10°-20°	2050.1	5.5
20°-30°	3418.4	9.2
30°-40°	4701.4	12.7
40°-50°	5741.7	15.5
50°-60°	6640.9	17.9
60°-70°	7918.2	21.4
70°-80°	5526.4	14.9
80°-90°	339.4	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	37007.0	100.0
0°-180°	37007.0	100.0

Coefficient of Utilization



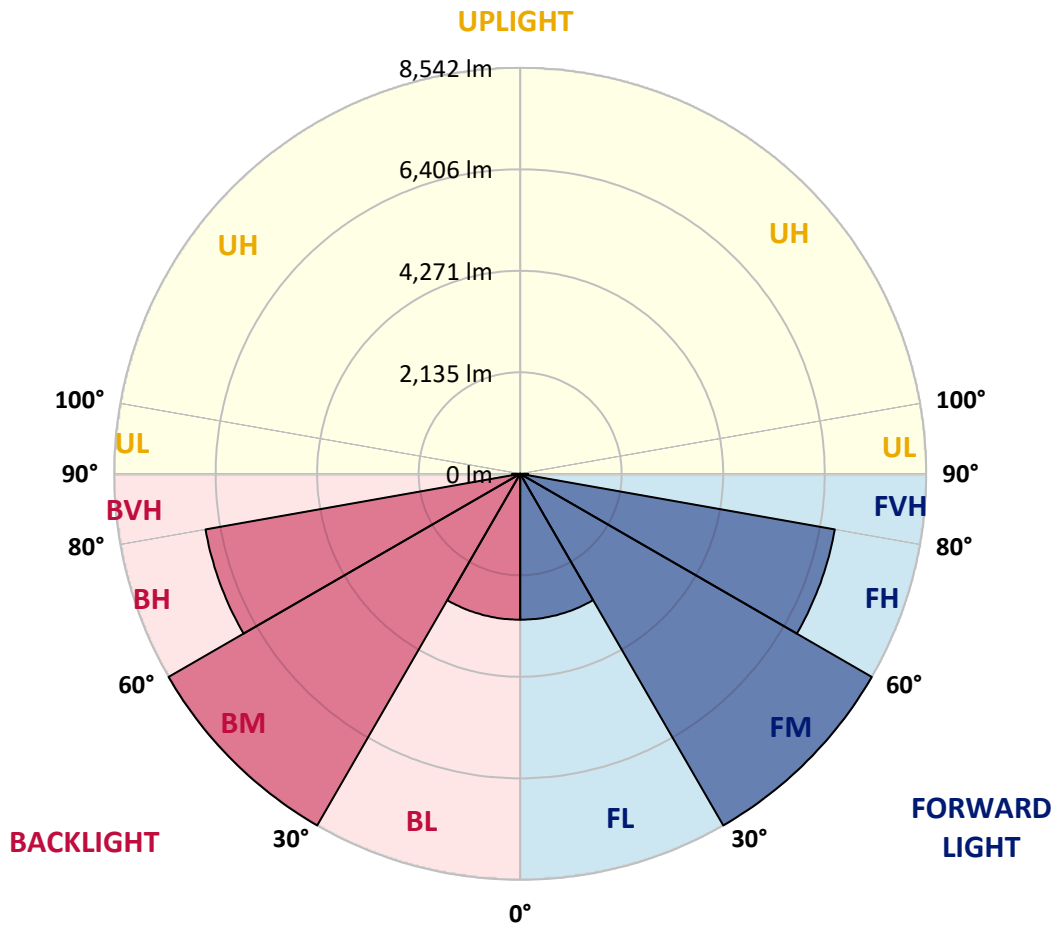
REPORT NUMBER: P884605
 CATALOG NUMBER: NAV-SB5C-730-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3069.5	8.3			
FM (30°-60°)	8542.0	23.1			
FH (60°-80°)	6722.3	18.2			G3/7500
FVH (80°-90°)	169.7	0.5			G2/225
BL (0°-30°)	3069.5	8.3	B4/5000		
BM (30°-60°)	8542.0	23.1	B5		
BH (60°-80°)	6722.3	18.2	B5		G5
BVH (80°-90°)	169.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short



REPORT NUMBER: P884605
 CATALOG NUMBER: NAV-SB5C-730-U-T1

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6915.1	6915.1	6915.1	6915.1	6915.1	6915.1	6915.1	6915.1	6915.1	6915.1	6915.1
2.5°	6921.0	6928.9	6928.9	6923.0	6936.8	6925.0	6925.0	6919.1	6925.0	6919.1	6919.1
5°	6956.5	6966.3	6970.2	6968.3	6986.0	6976.1	6976.1	6968.3	6970.2	6964.3	6964.3
7.5°	7023.3	7037.1	7045.0	7054.8	7080.4	7068.6	7060.7	7037.1	7027.3	7011.5	7011.5
10°	7045.0	7060.7	7086.3	7137.4	7196.4	7198.4	7174.8	7115.8	7070.5	7035.1	7029.2
12.5°	6978.1	6999.7	7052.8	7157.1	7288.8	7341.9	7304.6	7206.2	7117.7	7054.8	7045.0
15°	6893.5	6917.1	6997.8	7155.1	7349.8	7473.7	7469.8	7340.0	7198.4	7100.0	7084.3
17.5°	6761.7	6785.3	6901.4	7121.7	7397.0	7601.5	7656.6	7522.9	7324.2	7192.5	7170.8
20°	6523.8	6545.4	6706.7	7015.5	7412.7	7737.3	7880.8	7762.8	7515.0	7336.0	7302.6
22.5°	6215.0	6248.4	6437.2	6832.5	7375.4	7878.9	8136.5	8055.9	7737.3	7489.4	7444.2
25°	5884.6	5920.0	6140.2	6608.3	7279.0	7981.1	8439.4	8388.3	7989.0	7680.2	7617.3
27.5°	5599.4	5636.8	5876.7	6386.1	7129.5	8020.5	8738.3	8763.9	8293.9	7890.7	7823.8
30°	5375.2	5410.6	5666.3	6207.1	6936.8	7981.1	8999.9	9176.9	8604.6	8073.6	7977.2
32.5°	5129.3	5174.6	5444.0	5988.8	6708.6	7886.7	9228.1	9623.4	8964.5	8270.3	8148.3
35°	4818.6	4859.9	5143.1	5689.9	6409.7	7735.3	9418.8	10119.0	9479.8	8569.2	8433.5
37.5°	4441.0	4480.3	4761.5	5316.2	6112.7	7522.9	9564.4	10677.6	10093.4	8999.9	8819.0
40°	4061.4	4098.7	4362.3	4899.2	5756.7	7251.5	9615.5	11224.3	10797.5	9591.9	9399.2
42.5°	3713.3	3746.7	3988.6	4488.2	5357.5	6905.3	9548.6	11700.3	11428.9	10004.9	9757.1
45°	3392.7	3422.2	3636.5	4102.7	4942.5	6484.4	9348.0	12211.6	12180.2	10300.0	9965.6
47.5°	3026.9	3056.4	3278.6	3729.0	4527.5	5990.8	9007.8	12715.1	13224.5	10968.7	10583.2
50°	2580.4	2606.0	2834.1	3298.3	4096.8	5465.6	8535.8	13110.5	14542.3	11981.5	11497.7
52.5°	2051.3	2078.9	2301.1	2765.3	3585.4	4901.2	7914.3	13368.1	16064.5	13460.5	12864.6
55°	1526.2	1545.9	1738.6	2155.6	2952.1	4258.0	7135.4	13440.9	17791.4	15482.4	14737.0
57.5°	1107.3	1119.1	1243.0	1553.7	2238.2	3453.6	6189.4	13252.1	19846.6	18074.6	17136.4
60°	896.8	900.8	938.1	1075.8	1555.7	2545.0	5046.7	12603.0	22076.9	21416.1	20234.1
62.5°	814.2	814.2	824.1	861.4	1052.2	1679.6	3664.1	11257.8	24468.5	25638.8	24055.5
65°	757.2	757.2	761.1	778.8	830.0	1069.9	2312.9	9066.8	26484.5	30585.2	28583.0
67.5°	706.1	708.0	706.1	712.0	741.5	790.6	1341.3	6262.2	27570.1	35710.6	33549.1
70°	653.0	656.9	647.1	647.1	670.7	672.6	839.8	3434.0	26669.3	40006.0	39437.6
72.5°	590.0	595.9	580.2	576.3	594.0	586.1	631.3	1648.1	22897.1	41288.3	42783.1
75°	535.0	542.8	507.4	497.6	497.6	491.7	513.3	845.7	14860.9	33680.9	36025.2
77.5°	485.8	501.5	444.5	413.0	405.2	387.5	418.9	517.3	6500.2	15812.8	15484.3
80°	401.2	422.9	365.8	328.4	314.7	295.0	330.4	361.9	1933.3	3672.0	3516.6
82.5°	298.9	308.8	259.6	234.0	222.2	208.5	247.8	251.7	629.4	1300.0	1469.2
85°	190.8	194.7	159.3	137.7	131.8	125.9	157.3	137.7	239.9	955.8	1388.5
87.5°	66.9	76.7	61.0	55.1	59.0	49.2	72.8	41.3	66.9	674.6	835.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)